



## FEATURES



WiFi Positioning for Indoor Asset Tracking



Cellular tower fallback for positioning when no WiFi networks are detected



Weatherproof and ultra-rugged IP67 Housing with compact and ergonomic design



Powered by 3 x AAA Batteries with up to 6.5 years battery life



Accelerometer for Smart Movement Based Tracking

# Yabby WiFi

CELLULAR 2G OR 4G LTE-M / NB-IOT

## OVERVIEW

Tiny, lightweight and ultra-rugged battery-powered tracking device with WiFi Positioning for indoor and outdoor asset tracking and theft recovery.

## APPLICATIONS



Indoor/ Outdoor Asset Tracking



Pallets & Returnables



Theft Recovery



Run Hours Monitoring



Preventative Maintenance

## CONNECTIVITY

<b>2G</b>	2G: SARA-G350-02S-01 850/900/1800/1900 MHz
<b>4G LTE-M / NB-IoT</b>	uBlox SARA-R410M Modem operates on all major global LTE-M and NB-IoT bands.  Supported LTE bands: 1*, 2, 3, 4, 5, 8, 12, 13, 18, 19, 20, 26*, 28 (*roaming bands)
<b>SIM SIZE &amp; ACCESS</b>	Internal Nano 4FF SIM

## BATTERIES

<b>USER-REPLACEABLE BATTERIES</b>	3 x AAA
<b>BATTERY LIFE</b>	Up to 6.5 years of battery life at once-daily heartbeats.
<b>SUPPORTED BATTERY TYPES</b>	Lithium (LiFeS2)

## LOCATION

<b>WIFI POSITIONING SYSTEM</b>	Indoor asset location using Wifi Positioning Systems. Cell tower fallback for positioning when no networks are nearby
<b>CELL TOWER LOCATION</b>	Cell tower fallback for positioning when no WiFi and/or networks are nearby.

## POWER

<b>INPUT VOLTAGE</b>	4-6V DC
<b>SLEEP CURRENT</b>	<10uA* *Average current in lowest power configuration

## MECHANICS/DESIGN

<b>DIMENSIONS</b>	L 85 x W 63 x H 24 mm
<b>WEIGHT</b>	96g
<b>HOUSING</b>	ABS Polycarbonate Plastic
<b>IP RATING</b>	IP67 rated housing ensures device can withstand fine dust, high-pressure spray, submersion for 30 mins in 1m of water, and extreme temperatures.
<b>OPERATING TEMPERATURE</b>	-20°C to +60°C
<b>INSTALLATION</b>	Compact and concealable. Multiple installation options for covertly and easily securing the device to assets with screws, bolts, cable ties, rivets, and more.
<b>CELLULAR ANTENNA</b>	Internal
<b>3-AXIS ACCELEROMETER</b>	3-Axis Accelerometer to detect movement and high G-force events.
<b>DIAGNOSTIC LED</b>	Diagnostic LED signifies operation status.
<b>FLASH MEMORY</b>	Store weeks of records if device is out of cellular coverage. Storage capacity for over 10 days of continuous 30-second logging.

## SMARTS

<b>AUTO-APN</b>	Auto-APN allows the device to analyze the SIM card and select the correct APN details from a list that is pre-loaded in the device's firmware.
<b>GEOFENCING</b>	Create custom geofences and alerts if an asset enters or leaves specific locations.
<b>IMPACT DETECTION</b>	Configure impact-detection alerts when g-forces are exceeded by a user-defined threshold.
<b>PERIODIC OR MOVEMENT-BASED</b>	Configure parameters to send updates based on set time intervals (1x, 3x, 5x a day, etc) or when movement occurs. Adaptive tracking technology detects when the device is on the move and increases the update rate, providing detail when you need it while conserving battery when stationary.
<b>PREVENTATIVE MAINTENANCE</b>	Set reminders based on distance traveled and run hours to reduce maintenance and repair costs.
<b>THEFT RECOVERY</b>	Switch to Recovery Mode in the case of theft or loss to activate real-time tracking at 30-second intervals for asset retrieval.
<b>RUN HOUR MONITORING</b>	Calculate run hours and distance traveled (odometer) to understand and optimize asset utilization.
<b>SLEEP MODE</b>	Stationary devices enter sleep mode, switching the update rate to only twice per day until movement occurs to conserve battery life and optimize data usage.

## DEVICE MANAGEMENT

<b>FLEXIBLE CONFIGURATION</b>	Configure device parameters such as heartbeat rate, movement and accelerometer settings, and more to fit any tracking application.
<b>OEM SERVER</b>	Manage, monitor, configure, debug, update, and restart devices remotely from our cloud-based device management system.

## INTEGRATION

<b>THIRD-PARTY INTEGRATION</b>	Webhook, TCP or HTTPS, Direct and Data Splitting Integration Options
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## SECURITY

<b>DATA SECURITY</b>	Military-level AES-256 Encryption from device to OEM Server to protect the integrity and confidentiality of telematics data.  Data forwarded to third-party systems is sent via HTTPS for end-to-end security.
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## WARRANTY

<b>MANUFACTURER'S WARRANTY</b>	One year manufacturer's warranty.
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## CERTIFICATIONS

Please contact us for a full list of compliance specifications and documentation for your region.	<b>4G</b> - ACMA (DoC), CE (Doc) <b>2G</b> - CE (Doc)
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# Yabby WiFi

View more devices at [www.digitalmatter.com](http://www.digitalmatter.com)

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